

Date: 2023-09-20

Subject: **Supplementary Report Budget Amendment and Begin Procurement**

Secondary Title: Supply and Delivery of Two (2) Fully Electric Powered Fire Trucks

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Report Number: Brampton Fire and Emergency Services-2023-797

Recommendations:

That the report titled: **“Supplementary Report Budget Amendment and Begin Procurement – Supply and Delivery of Two (2) Fully Electric Powered Fire Trucks”** to the Committee of Council Meeting of September 13, 2023, be received.be received.

Overview:

- At the September 13, 2023 Council meeting, Council directed Staff to invite The Rosenbauer Group to provide a delegation in response to the delegation from Dependable Truck and Tank Ltd. relating to Report Number 2023-763 - Supply and Delivery of Two (2) Fully Electric Powered Fire Truck – Budget Amendment and Request to Begin Procurement Report.
- Furthermore, Council directed Staff to provide examples of Sole Source/Limited Tender of fire apparatus from other municipalities across Canada for review.
- At the time of this report, Staff have been able to confirm that 13 municipalities have recently engaged in Sole Source/Limited Tender procurements.
- BFES has previously engaged in Sole Source/Limited Tender processes in order to ensure compatibility with existing specialty fire apparatus.
- The intent is to proceed with the procurement of one (1) demo/stock electric pumper that is immediately available, as well as the procurement of one (1) custom order to be delivered in Q4 2025, achieving electric heavy vehicle fleet standardization.

Environmental Scan:

Climate Concerns and Health and Wellness

As requested by Council, Staff communicated with various members of Toronto Fire Services (TFS) to determine their rationale for Sole Sourcing/Limited Tendering the Vector fire apparatus. A video interview conducted by Firefighting in Canada regarding TFS research and selection process best explains Division Chief of Fleet, Rob Anselmi and their Apparatus Committee's decision. In the video, Division Chief Anselmi describes the RTX as "a fabulous truck, very innovative" and "impressive technology" DVC Anselmi explained the innovative design and integrative features were all about enhancing health and safety for the firefighter. These special features presented a training challenge for a department of 3400 staff. They decided on the Vector because it was the closest to their current design and it minimized training across all divisions of their department. Their expected delivery date is late spring 2024. It is noteworthy to mention that a comprehensive training package is being provided by Rosenbauer for BFES Suppression Firefighters and Emergency Vehicle Technicians. No specific climate concerns were cited.

Fire Services

As directed by Council, Staff have reached out to other municipalities regarding the utilization of Sole Source/Limited Tender processes for fire apparatus purchases. The following municipalities have confirmed their utilization or plan for utilization in the near future:

Municipality	Sole Sourced Apparatus	Exploring Sole Source in Future
Toronto	X	
Brampton	X	
London	X	
Barrie	X	
Mississauga	X	
Ajax	X	
Kitchener	X	
Niagara Falls	X	
Vancouver	X	
Burlington	X	
Surrey	X	
Winnipeg	X	
District of North Vancouver	X	
Hamilton		X
Ottawa		X

Data-Supported Decision-Making

In response to Council questions regarding capacity for competition in the current market and whether the REV Group's Vector electric fire truck was currently being utilized in-service at the time of the delegation, Staff reviewed available industry information. At the time of this report, REV Group reports purchase agreements in North America; however, no delivery confirmations are available. Consequently, no data is currently available as it relates to field use of the REV Group's electric fire truck.

Conversely, The Rosenbauer Group had in-service data from three (3) metro cities at the time of procuring BFES first fully electric fire apparatus. They recently provided a 6-month usage report from Los Angeles City Fire Department covering 1482 incident responses, 6,112 kilometres travelled, and 1185 hours of operating time. Furthermore, The Rosenbauer Group provided information on an additional 14 in-service electric fire apparatus that collectively have travelled over 200,000 kilometres.

Heavy Fleet Electrification Plan

For additional clarity, the chart below has been added illustrating the intent to electrify our heavy fleet as apparatuses are due for replacement. When competition is commercialized in the market a competitive bid process would be completed.

Heavy Fleet Electrification Plan			
Budget Year	Replacement Units Budgeted	Procurement Date	Estimated In-Service Date
2021	One (1) Squad/Pumper	2021	December 2023*
2023	Two (2) Squad/Pumpers	October 2023	One (1) in December 2023** One in December 2025
2024	Three (3) Squad/Pumpers	March 2024	March 2026
2025	One (1) Squad/Pumper	March 2025	March 2027
2026	Two (2) Squad/Pumpers	March 2026	March 2028
2027	One (1) Aerial	May 2027	July 2029
2028	One (1) Squad/Pumper	March 2028	March 2030

* Delivery delayed due to the outbreak of the war in Ukraine and Covid supply chain issues.

** Apparatus built to BFES specifications as a demo unit is available immediately.

Sole Source/Limited Tender

Sole Source/Limited Tender processes have previously been utilized for various specialty BFES fire apparatus. These purchases include the provision of aerial apparatus due to fleet standardization and stock pumper apparatus required due to immediate needs. Both Dependable Truck and Tank Ltd. and REV Fire Group have previously benefited from these Sole Source/Limited Tender processes as a result.

Sole Source Rationale:

The recommendation to Sole Source this purchase is in accordance with *Purchasing By-law 19-2018 - Schedule C – Limited Tendering*.

2. If goods or services can be supplied only by a particular Vendor and no reasonable alternative or substitute goods or services exist for the following reasons:

- a) The protection of patents, copyrights, or other exclusive rights; or*
- b) Due to an absence of competition for technical reasons.*

- Staff's position is that there is an absence of competition currently in respect to electric fire apparatus with The Rosenbauer Group currently being the only manufacturer with a fully electric fire pumper actively in service in the North American market.

7. The goods or services are purchased under circumstances which are exceptionally advantageous to the City, such as in the case of a bankruptcy or receivership;

Staff's position is that the opportunity to secure the demo unit from The Rosenbauer Group is exceptionally advantageous to the City due to the elimination of the 2-year build time associated with a custom order, allowing for the replacement of the current fire apparatus by year-end.

11. To ensure compatibility with existing goods, or to maintain specialized goods that must be maintained by the manufacturer of those goods or its representative;

- Staff's position is that the compatibility of the proposed purchases with the existing Rosenbauer electric pumper to be delivered in 2023 presents exceptional value to the City through standardization of requisite apparatus operator training and fleet maintenance and repair.

Conclusion:

In support of a "Green City" as identified in the Term of Council Priorities by moving towards greener and more environmentally friendly technologies, coupled with the sustainability focus in the 2021-2025 Fire Master Plan, Staff is proposing the procurement of the apparatus outlined in Report 2023-763. Moving forward with this timely purchase would represent a significant contribution to the Community Energy and Emissions Reduction Plan, allowing BFES to strengthen our commitment to a sustainable fleet. Approval of 2023-763 adds to our original procurement approved by Council in 2021, establishing the City of Brampton as the first city in North America with multiple electric fire trucks in service. By Early 2024 Two (2) Electric Fire Trucks will be in service with one (1) on order.

As the proposed procurement is in accordance with Purchasing By-law 19-2018, it is recommended that Council approve Report Number 2023-763 - Supply and Delivery of Two (2) Fully Electric Powered Fire Truck – Budget Amendment and Request to Begin Procurement Report.

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